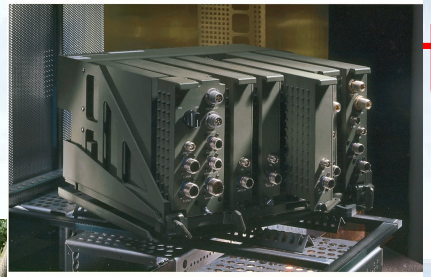
Joint Tactical Radio ter


JTR S Cluster 1 Ground Radio

Briefed by

MAJ B.T. ALEXANDER

POM-06 Command Element Advocacy Board (CEAB)

Requirements Officer: Maj Kerr
Advocate Rep: LtCol Martin

REQUIREMENT

- **The requirement for the Joint Tactical Radio System (JTRS) is documented in the Mission Needs Statement (MNS) for the Joint Tactical Radio, dated 21 August 1997.**
- **Defense Planning Guidance directs consolidation of service programs into an interoperable, joint program for the development and acquisition of affordable, high capacity tactical radios to meet the bandwidth needs of various echelons.**
  - **The single function hardware design of legacy communications systems cannot take advantage of rapid changes in commercial technology and cannot provide the functionality and flexibility necessary to achieve and maintain information superiority or support the rapid mobility required by today's armed forces.**
  - **A software-programmable and hardware-configurable digital radio system is required to provide increased interoperability, flexibility, and adaptability to support the varied mission requirements of the warfighters.**

CAPABILITY PROVIDED:.

- **A single, interoperable, joint radio that provides a secure, software-programmable, multi-band, wideband mobile network backbone**
- **Wide area network access and increased information exchange capabilities down to the last tactical mile and out to the forward edge of the battle space.**
- **Eliminate shortcomings of existing systems, to include the following: (1) limitation to a single frequency band and waveform – requiring multiple radios to access multiple nets, (2) unique hardware suites that require unique maintenance support, (3) high integration costs for adding functionality, and (4) lack of simultaneous voice, video, and data operations.**

URGENCY TO COMPETE IN POM06:

Adds additional life cycle management issues not included in the original AAO or previous submissions. Includes the life cycle replacement of the AN/GRC-171, AN/PRC-113 (initially with AN/PRC-117F, until a JTRS man pack is available), and the procurement of the JTRS Cluster 2 handheld, as well as the development of the JTRS HMMWV platform to support multiple channels.

STATUS OF REQUIREMENTS DOCUMENATION (ICD, CCD, MNS ORD, SON):

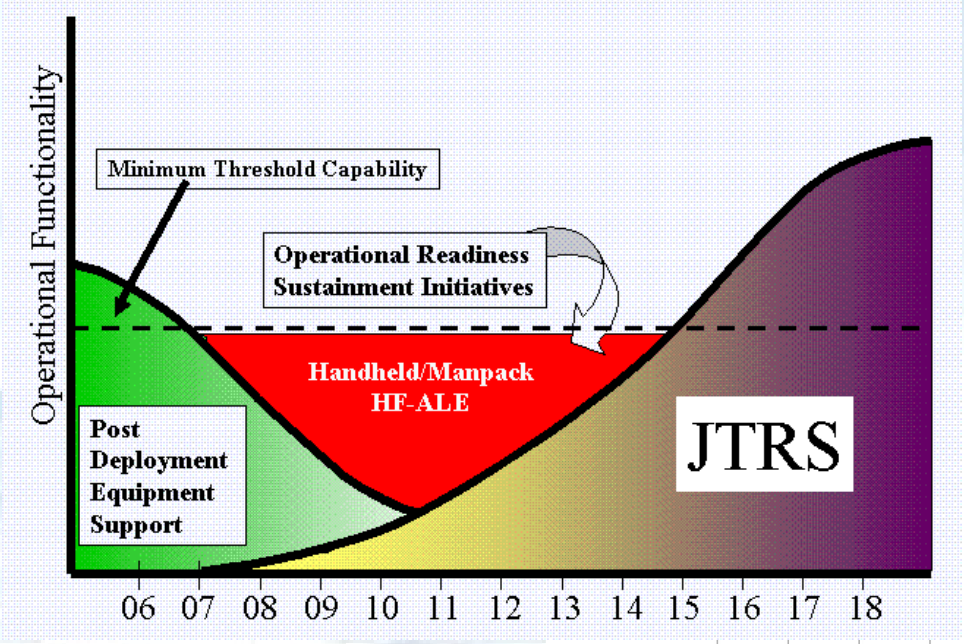
Document	Date Signed
Joint Mission Need Statement (MNS)	**21 Aug 1997**
Joint Operational Requirements Document (ORD) Version 3.2	**9 Apr 2003**

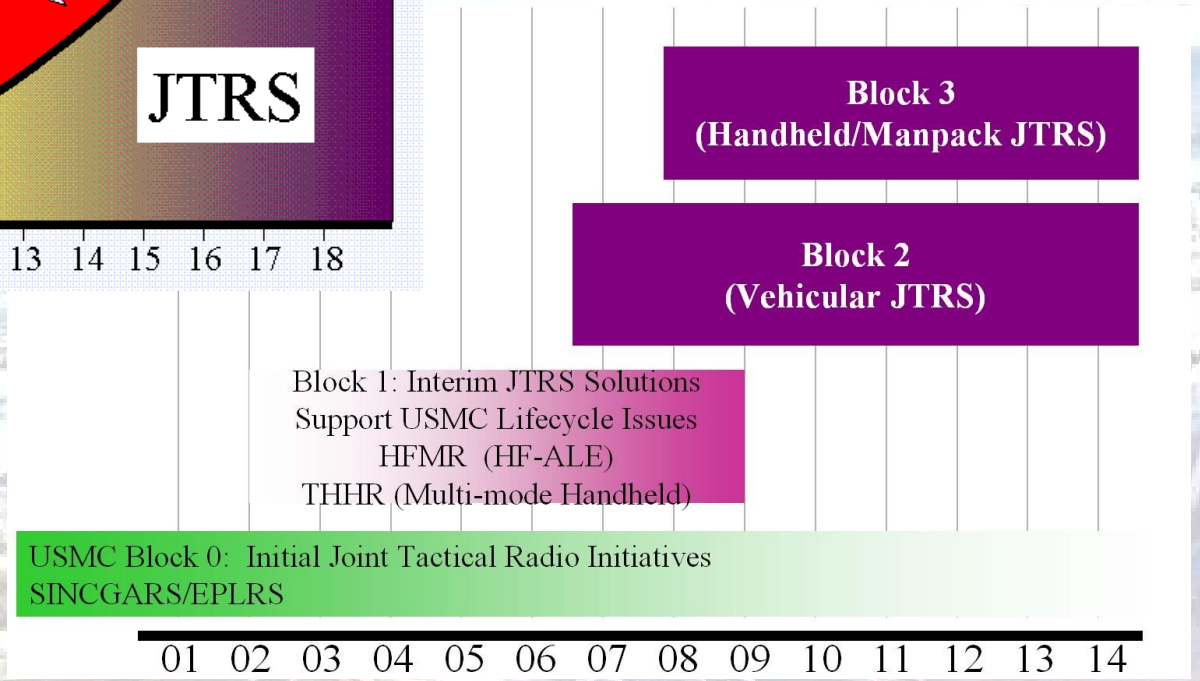
AAO:

THHR (AN/PRC-148/JEM)	5897	THHR SoN
HFMR (AN/PRC-150)	1442	HFMR SoN
MBMMR (AN/PRC-117F)	1592	Lifecycle Rep AN/PRC-113
JTRS Vehicular (Cluster 1 – FY07)	2130	JTRS ORD v3.2
JTRS Handheld (JEM-FY06/ Cluster 5-FY08)	19,000	JTRS ORD v3.2
JTRS Manpack (Cluster 5 -FY08)	15,075	JTRS ORD v3.2
JTRS Embedded (Cluster 5)	TBD	JTRS ORD v3.2

RELATED SYSTEMS: Provides essential voice and data communications for the Division and below. It will be interoperable and provide Gateway/ Route and Retransmit functions to key legacy radio systems EPLRS, SINCGARS, HF–ALE, HAVEQUICK II, UHF DAMA TacSat… to enable an

OUTSTANDING ISSUES:




Block 3
(Handheld/Manpack JTRS)
Block 2
(Vehicular JTRS)
Block 1: Interim JTRS Solutions
Support USMC Lifecycle Issues
HFMR (HF-ALE)
THHR (Multi-mode Handheld)
USMC Block 0: Initial Joint Tactical Radio Initiatives
SINCGARS/EPLRS
01 02 03 04 05 06 07 08 09 10 11 12 13 14

ASD(C3I) RF Equipment Acquisition Policy: **JTRS**